

MA4 1999059 PRIORITY: 23/10/1999

FILING NUMBER: FR 99/13067

FILED BY: VETROTEX FRANCE S.A.

ENGINEER: MA

PATENT

**Process for manufacturing a composite tape formed from
reinforcing fibres and fibres of a thermoplastic
organic material**

Filed by: VETROTEX FRANCE SA

ABSTRACT

Process for manufacturing a composite tape (10), consisting in bringing together and in consolidating a multiplicity of continuous yarns (11), **characterized in that** yarns (11) based on a thermoplastic and on reinforcing fibres are entrained and brought together in a parallel manner in the form of a sheet (12) which enters a zone in which it is heated to a temperature reaching at least the melting point of the thermoplastic and then passes through a rotating impregnation device (80) in order to distribute the molten thermoplastic uniformly and guarantee that the reinforcing fibres are completely impregnated by the latter; next, the sheet (12) is introduced into a shaping and centring device (100) so as to obtain a tape (13) formed by bringing the yarns (11) together so as to be touching, thereby creating transverse continuity; the tape (13) is cooled in order to consolidate the yarns by freezing the thermoplastic and its dimensional characteristics and its appearance are set in order to deliver the said composite tape (10).